

RAW SEQUENCE LISTING                      DATE: 05/19/2000  
PATENT APPLICATION: US/09/079,678A       TIME: 11:56:03

Input Set : A:\1101220  
Output Set: N:\CRF3\05182000\I079678A.raw

**Does Not Comply  
Corrected Diskette Needed**

```

C--> 5 (1) GENERAL INFORMATION:
      7 (i) APPLICANT: Alvarez, Vernon L.
      8 O'Mahony, Daniel J.
      9 Lambkin, Imelda J.
     10 Singleton, Judith
     11 Patterson, Catherine A.
     12 Cagney, Gerard M.
     13 Belinka, Benjamin A.
     14 Carter, John M.
C--> 16 (ii) TITLE OF INVENTION: RANDOM PEPTIDES THAT BIND TO GASTRO-
     17 INTESTINAL TRACT (GIT) TRANSPORT RECEPTORS AND RELATED METHODS
     20 (iii) NUMBER OF SEQUENCES: 407
     22 (iv) CORRESPONDENCE ADDRESS:
     23 (A) ADDRESSEE: Pennie & Edmonds LLP
     24 (B) STREET: 1155 Avenue of the Americas
     25 (C) CITY: New York
     26 (D) STATE: New York
     27 (E) COUNTRY: USA
     28 (F) ZIP: 10036
     30 (v) COMPUTER READABLE FORM:
     31 (A) MEDIUM TYPE: Diskette
     32 (B) COMPUTER: IBM Compatible
     33 (C) OPERATING SYSTEM: DOS
     34 (D) SOFTWARE: FastSEQ Version 2.0
C--> 36 (vi) CURRENT APPLICATION DATA:
C--> 37 (A) APPLICATION NUMBER: US/09/079,678A
C--> 38 (B) FILING DATE: 15-May-1998
     39 (C) CLASSIFICATION:
     41 (viii) ATTORNEY/AGENT INFORMATION:
     42 (A) NAME: Misrock, S. Leslie
     43 (B) REGISTRATION NUMBER: 18,872
     44 (C) REFERENCE/DOCKET NUMBER: 1101-220
     46 (ix) TELECOMMUNICATION INFORMATION:
     47 (A) TELEPHONE: 212-790-9090
     48 (B) TELEFAX: 212-869-9741
     49 (C) TELEX: 66141 PENNIE

```

3465 (2) INFORMATION FOR SEQ ID NO: 179:  
3466 (i) SEQUENCE CHARACTERISTICS:  
3467 (A) LENGTH: 1827 amino acids  
3468 (B) TYPE: amino acid  
3469 (C) STRANDEDNESS:  
3470 (D) TOPOLOGY: unknown  
3471 (ii) MOLECULE TYPE: peptide

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```

3475      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 179:
3477 Met Ala Arg Lys Lys Phe Ser Gly Leu Glu Ile Ser Leu Ile Val Leu
3478 1      5      10      15
3479 Phe Val Ile Val Thr Ile Ile Ala Ile Ala Leu Ile Val Val Leu Ala
3480      20      25      30
3481 Thr Lys Thr Pro Ala Val Asp Glu Ile Ser Asp Ser Thr Ser Thr Pro
3482      35      40      45
3483 Ala Thr Thr Arg Val Thr Thr Asn Pro Ser Asp Ser Gly Lys Cys Pro
3484      50      55      60
3485 Asn Val Leu Asn Asp Pro Val Asn Val Arg Ile Asn Cys Ile Pro Glu
3486      65      70      75      80
3487 Gln Phe Pro Thr Glu Gly Ile Cys Ala Gln Arg Gly Cys Cys Trp Arg
3488      85      90      95
3489 Pro Trp Asn Asp Ser Leu Ile Pro Trp Cys Phe Phe Val Asp Asn His
3490      100     105     110
3491 Gly Tyr Asn Val Gln Asp Met Thr Thr Thr Ser Ile Gly Val Glu Ala
3492      115     120     125
3493 Lys Leu Asn Arg Ile Pro Ser Pro Thr Leu Phe Gly Asn Asp Ile Asn
3494      130     135     140
3495 Ser Val Leu Phe Thr Thr Gln Asn Gln Thr Pro Asn Arg Phe Arg Phe
3496      145     150     155     160
3497 Lys Ile Thr Asp Pro Asn Asn Arg Arg Tyr Glu Val Pro His Gln Tyr
3498      165     170     175
3499 Val Lys Glu Phe Thr Gly Pro Thr Val Ser Asp Thr Leu Tyr Asp Val
3500      180     185     190
3501 Lys Val Ala Gln Asn Pro Phe Ser Ile Gln Val Ile Arg Lys Ser Asn
3502      195     200     205
3503 Gly Lys Thr Leu Phe Asp Thr Ser Ile Gly Pro Leu Val Tyr Ser Asp
3504      210     215     220
3505 Gln Tyr Leu Gln Ile Ser Ala Arg Leu Pro Ser Asp Tyr Ile Tyr Gly
3506      225     230     235     240
3507 Ile Gly Glu Gln Val His Lys Arg Phe Arg His Asp Leu Ser Trp Lys
3508      245     250     255
3509 Thr Trp Pro Ile Phe Thr Arg Asp Gln Leu Pro Gly Asp Asn Asn Asn
3510      260     265     270
3511 Asn Leu Tyr Gly His Gln Thr Phe Phe Met Cys Ile Glu Asp Thr Ser
3512      275     280     285
3513 Gly Lys Ser Phe Gly Val Phe Leu Met Asn Ser Asn Ala Met Glu Ile
3514      290     295     300
3515 Phe Ile Gln Pro Thr Pro Ile Val Thr Tyr Arg Val Thr Gly Gly Ile
3516      305     310     315     320
3517 Leu Asp Phe Tyr Ile Leu Leu Gly Asp Thr Pro Glu Gln Val Val Gln
3518      325     330     335
3519 Gln Tyr Gln Gln Leu Val Gly Leu Pro Ala Met Pro Ala Tyr Trp Asn
3520      340     345     350
3521 Leu Gly Phe Gln Leu Ser Arg Trp Asn Tyr Lys Ser Leu Asp Val Val
3522      355     360     365
3523 Lys Glu Val Val Arg Arg Asn Arg Glu Ala Gly Ile Pro Phe Asp Thr
3524      370     375     380

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```

3525 Gln Val Thr Asp Ile Asp Tyr Met Glu Asp Lys Lys Asp Phe Thr Tyr
3526 385 390 395 400
3527 Asp Gln Val Ala Phe Asn Gly Leu Pro Gln Phe Val Gln Asp Leu His
3528 405 410 415
3529 Asp His Gly Gln Lys Tyr Val Ile Ile Leu Asp Pro Ala Ile Ser Ile
3530 420 425 430
3531 Gly Arg Arg Ala Asn Gly Thr Thr Tyr Ala Thr Tyr Glu Arg Gly Asn
3532 435 440 445
3533 Thr Gln His Val Trp Ile Asn Glu Ser Asp Gly Ser Thr Pro Ile Ile
3534 450 455 460
3535 Gly Glu Val Trp Pro Gly Leu Thr Val Tyr Pro Asp Phe Thr Asn Pro
3536 465 470 475 480
3537 Asn Cys Ile Asp Trp Trp Ala Asn Glu Cys Ser Ile Phe His Gln Glu
3538 485 490 495
3539 Val Gln Tyr Asp Gly Leu Trp Ile Asp Met Asn Glu Val Ser Ser Phe
3540 500 505 510
3541 Ile Gln Gly Ser Thr Lys Gly Cys Asn Val Asn Lys Leu Asn Tyr Pro
3542 515 520 525
3543 Pro Phe Thr Pro Asp Ile Leu Asp Lys Leu Met Tyr Ser Lys Thr Ile
3544 530 535 540
3545 Cys Met Asp Ala Val Gln Asn Trp Gly Lys Gln Tyr Asp Val His Ser
3546 545 550 555 560
3547 Leu Tyr Gly Tyr Ser Met Ala Ile Ala Thr Glu Gln Ala Val Gln Lys
3548 565 570 575
3549 Val Phe Pro Asn Lys Arg Ser Phe Ile Leu Thr Arg Ser Thr Phe Ala
3550 580 585 590
3551 Gly Ser Gly Arg His Ala Ala His Trp Leu Gly Asp Asn Thr Ala Ser
3552 595 600 605
3553 Trp Glu Gln Met Glu Trp Ser Ile Thr Gly Met Leu Glu Phe Ser Leu
3554 610 615 620
3555 Phe Gly Ile Pro Leu Val Gly Ala Asp Ile Cys Gly Phe Val Ala Glu
3556 625 630 635 640
3557 Thr Thr Glu Glu Leu Cys Arg Arg Trp Met Gln Leu Gly Ala Phe Tyr
3558 645 650 655
3559 Pro Phe Ser Arg Asn His Asn Ser Asp Gly Tyr Glu His Gln Asp Pro
3560 660 665 670
3561 Ala Phe Phe Gly Gln Asn Ser Leu Leu Val Lys Ser Ser Arg Gln Tyr
3562 675 680 685
3563 Leu Thr Ile Arg Tyr Thr Leu Leu Pro Phe Leu Tyr Thr Leu Phe Tyr
3564 690 695 700
3565 Lys Ala His Val Phe Gly Glu Thr Val Ala Arg Pro Val Leu His Glu
3566 705 710 715 720
3567 Phe Tyr Glu Asp Thr Asn Ser Trp Ile Glu Asp Thr Glu Phe Leu Trp
3568 725 730 735
3569 Gly Pro Ala Leu Leu Ile Thr Pro Val Leu Lys Gln Gly Ala Asp Thr
3570 740 745 750
3571 Val Ser Ala Tyr Ile Pro Asp Ala Ile Trp Tyr Asp Tyr Glu Ser Gly
3572 755 760 765
3573 Ala Lys Arg Pro Trp Arg Lys Gln Arg Val Asp Met Tyr Leu Pro Ala

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```

3574      770      775      780
3575 Asp Lys Ile Gly Leu His Leu Arg Gly Gly Tyr Ile Ile Pro Ile Gln
3576 785      790      795      800
3577 Glu Pro Asp Val Thr Thr Thr Ala Ser Arg Lys Asn Pro Leu Gly Leu
3578      805      810      815
3579 Ile Val Ala Leu Gly Glu Asn Asn Thr Ala Lys Gly Asp Phe Phe Trp
3580      820      825      830
3581 Asp Asp Gly Glu Thr Lys Asp Thr Ile Gln Asn Gly Asn Tyr Ile Leu
3582      835      840      845
3583 Tyr Thr Phe Ser Val Ser Asn Asn Thr Leu Asp Ile Val Cys Thr His
3584      850      855      860
3585 Ser Ser Tyr Gln Glu Gly Thr Thr Leu Ala Phe Gln Thr Val Lys Ile
3586 865      870      875      880
3587 Leu Gly Leu Thr Asp Ser Val Thr Glu Val Arg Val Ala Glu Asn Asn
3588      885      890      895
3589 Gln Pro Met Asn Ala His Ser Asn Phe Thr Tyr Asp Ala Ser Asn Gln
3590      900      905      910
3591 Val Leu Leu Ile Ala Asp Leu Lys Leu Asn Leu Gly Arg Asn Phe Ser
3592      915      920      925
3593 Val Gln Trp Asn Gln Ile Phe Ser Glu Asn Glu Arg Phe Asn Cys Tyr
3594      930      935      940
3595 Pro Asp Ala Asp Leu Ala Thr Glu Gln Lys Cys Thr Gln Arg Gly Cys
3596 945      950      955      960
3597 Val Trp Arg Thr Gly Ser Ser Leu Ser Lys Ala Pro Glu Cys Tyr Phe
3598      965      970      975
3599 Pro Arg Gln Asp Asn Ser Tyr Ser Val Asn Ser Ala Arg Tyr Ser Ser
3600      980      985      990
3601 Met Gly Ile Thr Ala Asp Leu Gln Leu Asn Thr Ala Asn Ala Arg Ile
3602      995      1000      1005
3603 Lys Leu Pro Ser Asp Pro Ile Ser Thr Leu Arg Val Glu Val Lys Tyr
3604      1010      1015      1020
3605 His Lys Asn Asp Met Leu Gln Phe Lys Ile Tyr Asp Pro Gln Lys Lys
E--> 3606 025      1030      1035      1040
3607 Arg Tyr Glu Val Pro Val Pro Leu Asn Ile Pro Thr Thr Pro Ile Ser
3608      1045      1050      1055
3609 Thr Tyr Glu Asp Arg Leu Tyr Asp Val Glu Ile Lys Glu Asn Pro Phe
3610      1060      1065      1070
3611 Gly Ile Gln Ile Arg Arg Arg Ser Ser Gly Arg Val Ile Trp Asp Ser
3612      1075      1080      1085
3613 Trp Leu Pro Gly Phe Ala Phe Asn Asp Gln Phe Ile Gln Ile Ser Thr
3614      1090      1095      1100
3615 Arg Leu Pro Ser Glu Tyr Ile Tyr Gly Phe Gly Glu Val Glu His Thr
E--> 3616 105      1110      1115      1120
3617 Ala Phe Lys Arg Asp Leu Asn Trp Asn Thr Trp Gly Met Phe Thr Arg
3618      1125      1130      1135
3619 Asp Gln Pro Pro Gly Tyr Lys Leu Asn Ser Tyr Gly Phe His Pro Tyr
3620      1140      1145      1150
3621 Tyr Met Ala Leu Glu Glu Glu Gly Asn Ala His Gly Val Phe Leu Leu
3622      1155      1160      1165

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*fix numbers*

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```

3623 Asn Ser Asn Ala Met Asp Val Thr Phe Gln Pro Thr Pro Ala Leu Thr
3624      1170      1175      1180
3625 Tyr Arg Thr Val Gly Gly Ile Leu Asp Phe Tyr Met Phe Leu Gly Pro
E--> 3626 185      1190      1195      1200
3627 Thr Pro Gln Val Ala Thr Lys Gln Tyr His Glu Val Ile Gly His Pro
3628      1205      1210      1215
3629 Val Met Pro Ala Tyr Trp Ala Leu Gly Phe Gln Leu Cys Arg Tyr Gly
3630      1220      1225      1230
3631 Tyr Ala Asn Thr Ser Glu Val Arg Glu Leu Tyr Asp Ala Met Val Ala
3632      1235      1240      1245
3633 Ala Asn Ile Pro Tyr Asp Val Gln Tyr Thr Asp Ile Asp Tyr Met Glu
3634      1250      1255      1260
3635 Arg Gln Leu Asp Phe Thr Ile Gly Glu Ala Phe Gln Asp Leu Pro Gln
E--> 3636 265      1270      1275      1280
3637 Phe Val Asp Lys Ile Arg Gly Glu Gly Met Arg Tyr Ile Ile Ile Leu
3638      1285      1290      1295
3639 Asp Pro Ala Ile Ser Gly Asn Glu Thr Lys Thr Tyr Pro Ala Phe Glu
3640      1300      1305      1310
3641 Arg Gly Gln Gln Asn Asp Val Phe Val Lys Trp Pro Asn Thr Asn Asp
3642      1315      1320      1325
3643 Ile Cys Trp Ala Lys Val Trp Pro Asp Leu Pro Asn Ile Thr Ile Asp
3644      1330      1335      1340
3645 Lys Thr Leu Thr Glu Asp Glu Ala Val Asn Ala Ser Arg Ala His Val
E--> 3646 345      1350      1355      1360
3647 Ala Phe Pro Asp Phe Phe Arg Thr Ser Thr Ala Glu Trp Trp Ala Arg
3648      1365      1370      1375
3649 Glu Ile Val Asp Phe Tyr Asn Glu Lys Met Lys Phe Asp Gly Leu Trp
3650      1380      1385      1390
3651 Ile Asp Met Asn Glu Pro Ser Ser Phe Val Asn Gly Thr Thr Thr Asn
3652      1395      1400      1405
3653 Gln Cys Arg Asn Asp Glu Leu Asn Tyr Pro Pro Tyr Phe Pro Glu Leu
3654      1410      1415      1420
3655 Thr Lys Arg Thr Asp Gly Leu His Phe Arg Thr Ile Cys Met Glu Ala
E--> 3656 425      1430      1435      1440
3657 Glu Gln Ile Leu Ser Asp Gly Thr Ser Val Leu His Tyr Asp Val His
3658      1445      1450      1455
3659 Asn Leu Tyr Gly Trp Ser Gln Met Lys Pro Thr His Asp Ala Leu Gln
3660      1460      1465      1470
3661 Lys Thr Thr Gly Lys Arg Gly Ile Val Ile Ser Arg Ser Thr Tyr Pro
3662      1475      1480      1485
3663 Thr Ser Gly Arg Trp Gly Gly His Trp Leu Gly Asp Asn Tyr Ala Arg
3664      1490      1495      1500
3665 Trp Asp Asn Met Asp Lys Ser Ile Ile Gly Met Met Glu Phe Ser Leu
E--> 3666 505      1510      1515      1520
3667 Phe Gly Ile Ser Tyr Thr Gly Ala Asp Ile Cys Gly Phe Phe Asn Asn
3668      1525      1530      1535
3669 Ser Glu Tyr His Leu Cys Thr Arg Trp Met Gln Leu Gly Ala Phe Tyr
3670      1540      1545      1550
3671 Pro Tyr Ser Arg Asn His Asn Ile Ala Asn Thr Arg Arg Gln Asp Pro

```

*None  
error*

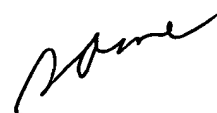
RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/079,678A  
 DATE: 05/19/2000  
 TIME: 11:56:04

Input Set : A:\1101220  
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```

3672      1555      1560      1565
3673 Ala Ser Trp Asn Glu Thr Phe Ala Glu Met Ser Arg Asn Ile Leu Asn
3674      1570      1575      1580
3675 Ile Arg Tyr Thr Leu Leu Pro Tyr Phe Tyr Thr Gln Met His Glu Ile
E--> 3676 585      1590      1595      1600
3677 His Ala Asn Gly Gly Thr Val Ile Arg Pro Leu Leu His Glu Phe Phe
3678      1605      1610      1615
3679 Asp Glu Lys Pro Thr Trp Asp Ile Phe Lys Gln Phe Leu Trp Gly Pro
3680      1620      1625      1630
3681 Ala Phe Met Val Thr Pro Val Leu Glu Pro Tyr Val Gln Thr Val Asn
3682      1635      1640      1645
3683 Ala Tyr Val Pro Asn Ala Arg Trp Phe Asp Tyr His Thr Gly Lys Asp
3684      1650      1655      1660
3685 Ile Gly Val Arg Gly Gln Phe Gln Thr Phe Asn Ala Ser Tyr Asp Thr
E--> 3686 665      1670      1675      1680
3687 Ile Asn Leu His Val Arg Gly Gly His Ile Leu Pro Cys Gln Glu Pro
3688      1685      1690      1695
3689 Ala Gln Asn Thr Phe Tyr Ser Arg Gln Lys His Met Lys Leu Ile Val
3690      1700      1705      1710
3691 Ala Ala Asp Asp Asn Gln Met Ala Gln Gly Ser Leu Phe Trp Asp Asp
3692      1715      1720      1725
3693 Gly Glu Ser Ile Asp Thr Tyr Glu Arg Asp Leu Tyr Leu Ser Val Gln
3694      1730      1735      1740
3695 Phe Asn Leu Asn Gln Thr Thr Leu Thr Ser Thr Ile Leu Lys Arg Gly
E--> 3696 745      1750      1755      1760
3697 Tyr Ile Asn Lys Ser Glu Thr Arg Leu Gly Ser Leu His Val Trp Gly
3698      1765      1770      1775
3699 Lys Gly Thr Thr Pro Val Asn Ala Val Thr Leu Thr Tyr Asn Gly Asn
3700      1780      1785      1790
3701 Lys Asn Ser Leu Pro Phe Asn Glu Asp Thr Thr Asn Met Ile Leu Arg
3702      1795      1800      1805
3703 Ile Asp Leu Thr Thr His Asn Val Thr Leu Glu Glu Pro Ile Glu Ile
3704      1810      1815      1820
3705 Asn Trp Ser
E--> 3706 825

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PATENT APPLICATION: US/09/079,678A

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Input Set : A:\1101220

Output Set: N:\CRF3\05182000\I079678A.raw

L:5 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:]  
L:16 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:]  
L:1105 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=56, Value=[DNA]  
L:1121 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=57, Value=[DNA]  
L:1137 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=58, Value=[DNA]  
L:1153 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=59, Value=[DNA]  
L:1169 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=60, Value=[DNA]  
L:1185 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=61, Value=[DNA]  
L:1201 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=62, Value=[DNA]  
L:1217 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=63, Value=[DNA]  
L:1233 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=64, Value=[DNA]  
L:1249 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=65, Value=[DNA]  
L:1265 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=66, Value=[DNA]  
L:1281 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=67, Value=[DNA]  
L:1297 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=68, Value=[DNA]  
L:1313 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=69, Value=[DNA]  
L:1329 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=70, Value=[DNA]  
L:1345 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=71, Value=[DNA]  
L:1361 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=72, Value=[DNA]  
L:1377 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=73, Value=[DNA]  
L:1393 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=74, Value=[DNA]  
L:1409 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=75, Value=[DNA]  
L:1425 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=76, Value=[DNA]  
L:1441 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=77, Value=[DNA]  
L:1457 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=78, Value=[DNA]  
L:1473 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=79, Value=[DNA]  
L:1489 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=80, Value=[DNA]  
L:1505 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=81, Value=[DNA]  
L:1521 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=82, Value=[DNA]  
L:1537 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=83, Value=[DNA]  
L:1553 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=84, Value=[DNA]  
L:1569 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=85, Value=[DNA]  
L:1585 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=86, Value=[DNA]  
L:1601 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=87, Value=[DNA]  
L:1617 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=88, Value=[DNA]  
L:1633 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=89, Value=[DNA]  
L:1649 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=90, Value=[DNA]  
L:1665 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=91, Value=[DNA]  
L:1681 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=92, Value=[DNA]  
L:1697 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=93, Value=[DNA]  
L:1713 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=94, Value=[DNA]  
L:1729 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=95, Value=[DNA]  
L:1745 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=96, Value=[DNA]  
L:1761 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=97, Value=[DNA]  
L:1777 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=98, Value=[DNA]  
L:1793 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=99, Value=[DNA]  
L:1809 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=100, Value=[DNA]  
L:1825 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=101, Value=[DNA]

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Input Set : A:\1101220

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L:1841 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=102, Value=[DNA]  
L:1857 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=103, Value=[DNA]  
L:1873 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=104, Value=[DNA]  
L:1889 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=105, Value=[DNA]  
L:3606 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:179  
M:332 Repeated in SeqNo=179  
L:6402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:253.  
L:6435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:254  
L:6459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:255  
L:6630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:266  
L:6655 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:267  
L:6678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:268  
L:6701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:269  
L:6724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:270  
L:6749 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:271  
L:6774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:272  
L:6799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:273  
L:6824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:274  
L:6849 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:275  
L:6874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:276  
L:6899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:277  
L:6924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:278  
L:6949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:279  
L:6972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280  
L:6995 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:281  
L:7020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:282  
L:7045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:283  
L:7068 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284  
L:7091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285  
L:7116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:286  
L:7141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287  
L:7166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:288  
L:7191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:289  
L:7216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290  
L:7241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:291  
L:7266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292  
L:7289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:293  
L:7312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294  
L:7335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:295  
L:7356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296  
L:7377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:297  
L:7400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298  
L:7423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:299  
L:7444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:300  
L:7465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:301  
L:7486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:302  
L:7509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:303  
L:7530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:304  
L:7555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:305



## VERIFICATION SUMMARY

DATE: 05/19/2000

PATENT APPLICATION: US/09/079,678A

TIME: 11:56:05

Input Set : A:\1101220

Output Set: N:\CRF3\05182000\I079678A.raw

L:7576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:306  
L:7597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:307  
L:7618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:308  
L:7639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:309  
L:7660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:310  
L:7681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:311  
L:7702 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:312